

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

James L. RICHARDS et al.

Appl. No: 09/638,150 Confirmation No:

Filed: August 15, 2000

For: A METHOD AND APPARATUS FOR POSITIONING PULSES IN

TIME

Art Unit: 2734

Examiner: Unassigned

Atty. Docket No: 28549/165554

Customer No:

Information Disclosure Statement

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §1.56, Applicants request the Examiner to consider the references listed in the attached PTO-1449. The Examiner is requested to initial the attached PTO-1449 after considering the references. The references are discussed in the Specification of the subject application where their relevance is indicated.

Please charge any necessary fee or credit any overpayment in connection with this Information Disclosure Statement to Deposit Account No. 22-0261.

Date: November 2, 2004

Robert S. Babayi

Registration No. 33,471

Respectfully submitted

VENABLE

P.O. Box 34385

Washington, D.C. 20043-9998 Telephone: (202) 962-4800

Telefax: (202) 962-8300

Substitute for form 1449A/PTO

Approved for use through 10/31/2002. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

Complete if Known				
Application Number	09/638,150			
Filing Date	August 15, 2000			
First Named Inventor	James L. RICHARDS et al			
Group Art Unit	2734			
Examiner Name	Unassigned			
Attorney Docket Number	28549/165554			

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Œ/	U.S. PATENT DOCUMENTS							
Examiner Cite No.1		U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevar Passages or Relevant Figures Appear			
	Al	4,928,316	HERITAGE et al.	05/22/90				
	A2	6,160,802	BARRETT	12/12/00				
	A3	5,610,907	BARRETT.	03/11/97				
	A4	3,728,632	ROSS	04/17/73				
	A5	5,377,225	DAVIS	12/27.94				
	A6	5,793,759	RAKIB et al.	08/11/98				
	A7	4,170,757	SKUDERA et al.	10/09/79				
	A8	4,641,317	FULLERTON	02/03/87				
	A9	4,743,906	FULLERTON	05/10/88				
	A10	4,813,057	FULLERTON	3/14/89				
	A11	5,960,031	FULLERTON et al.	09/28/99				
,	A12	5,963,581	FULLERTON et al	10/05/99				
	A13	4,979,186	FULLERTON	12/18/90				
	A14	5,677,927	FULLERTON et al.	10/14/97				
	A15	5,687,169	FULLERTON	11/11/97				
•	A16	5,832,035	FULLERTON	11/03/98				
	A17	5,363,108	FULLERTON	11/08/94				
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	FOREIGN PATENT DOCUMENTS							
		For	eign Patent De	ocument	Name of Patentee	Date of Publication of	Pages, Columns, Lines,	
Examiner Initials*	Cite No. ¹	Office ³	Number⁴	Kind Code ⁵ (<i>if known</i>)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T ₆
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Examiner Signature	Date Considered	

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO Complete if Known Application Number 09/638,150 INFORMATION DISCLOSURE Filing Date August 15, 2000 STATEMENT BY APPLICANT First Named Inventor James L. RICHARDS et al. 2734 **Group Art Unit** (use as many sheets as necessary) **Examiner Name** Unassigned Sheet of 2 28549/165554 Attorney Docket Number

	-	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner Cite No.1					
	A18	S.V. MARIC et al., "A Class of Frequency Hop Codes With Nearly Ideal Characteristics For Use In Multiple-Access Spread- Spectrum Communications And Radar And Sonar Systems", IEEE Transactions ofn Communicatrions, Vol.40(9):1442-1447, (1992)			
	A19	E. L TITLEBAUM et al., "Time-Frequency Hop Signals Part I: Coding Based Upon The Theory Of Linear Congruences", IEEE Transactions On Aerospace And Electronic Systems", Vol. AES-17(4):490-493, (1981)			
	A20	E. L. TITLEBAUM et al., "Time-Frequency Hop Signals Part II: Coding Based Upon Quadratic Congruences", IEEE Transactions On Aerospace And Electronic Systems", Vol. AES-17(4):494-500, (1981)			
	A21	E.L. TITLEBAUM et al., "Ambiguity Properties Of Quadratic Congruential Coding", IEEE Transactions On Aerospace And Electronic Systems", Vol. 27(1): 18-29, (1991)			
	A22	R.A. SCHOLTZ, "Multiple Access With Time-Hopping Implulse Modulation", Communication Science Institute, University of Southern California, Los Angeles, CA (1993)			
	A23	A. ALBICKI et al., "Transmitter And Receiver Design For Pilot Project, Phase 1", Technical Report #1, for Rochester Gas and Electric Corporation, pp.726-742, (1988)			
	A24	BELLEGARDA et al., "Time-Frequency Hop Codes Based Upon Extended Quadratic Congrences", IEEE Transactions On Aerospace And Electronic Systems, Vol.24(6):726-742, (1988)	•		
	A25	BELLEGARDA et al., "The Hit Array: An Analysis Formalism For Multiple Access Frequency Hop Coding", IEEE Transactions On Aerospace And Electronic Systems, Vol.27(1):30-39, (1991)			
	A26	BELLEGARDA et al., "Amendment to time-Frequency Hop Codes Based Upon Extended Quadratic Congruences", IEEE Transactions On Aerospace And Electronic Systems, Vol.27(1):167-172, (1991)			
	A27	DRUMHELLER et al., "Cross-Correlation Properties Of Algebraically Constructed Costas Arrays", IEEE Transactons On Aerospace And Electronic Systems, Vol.27:2-10, (1991)			
	A28	KOSTIC et al., "The Design Of New Opitcal Codes And Time-Hopping Patterns For Synchronous Spread-Spectrum Code Division Multiple-Access Communication Systems", IEEE, ICC, pp. 585-589, (1991)			
	A29	Comments of Pulson Communications Corporation before the Federal Communications Commission, 1992			

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Examiner	Date	
Signature	Considered	

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